Patent
Serial No. 10/510,787
Amendment in Reply to Office Action of April 19, 2006

ABSTRACT:

A read/write head for an optical disk drive, comprises including a lens holder—(8), a support frame (11, 12, 16), means (15) for suspending the lens holder (8) in the support frame, which means that constrain movement of the lens holder (8) relative to the support frame, allowing only an at least limited translation in a focussing focusing direction—(z), parallel to the optical axis of a lens (7) in the lens holder (8), an at least-limited translation in a tracking direction (y), perpendicular to the focussing focusing direction (z), and an at least limited rotation about an axis in a tangent direction (x), perpendicular to both the focussing focusing and the tracking directiondirections -- and An actuator means, comprising only having two conductive focussing focusing coils (9, 10) with a winding axis parallel to the focussing focusing direction (z), each positioned relative to a magnetic circuit (11, 12) in such a way that a current flowing through a coil (9, 10) gives rise to is arranged to provide a force between the lens holder (8) and the support frame in the focussing focusing direction (2). The winding axes of the two

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focussing focusing coils—(9, 10) are positioned on opposite sides of a plane through the center of mass of the lens holder—(8), and parallel to the focussing focusing and the tangent direction. The focussing coils—(9, 10) are spaced apart in the tangent direction—(x).